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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

12/09/02
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APPLICANT: Vyacheslav D. Kats & Arnold S. Gordon

SERIAL NO.: 10/030,646

GROUP ART UNIT:2859

FILED: MAY 20, 2002

EXAMINER:

FOR: Electronic Weighing
Apparatus Utilizing
Surface Acoustic Waves

ATT'Y DOCKET:CAS-004 CIP-PCT

Honorable Commissioner of Patents
and Trademarks
Washington, D.C. 20231

I hereby certify that this correspondence is being deposited on this day with the United States Postal Service as first class mail in an envelope addressed to : Commissioner of Patents and Trademarks, Wasington, D.C. 20231.

David P. Gordon
David P. Gordon
Reg. No. 29,996

11/12/02
Date

Sir:

SUBMITTAL OF DOCUMENTS PURSUANT TO DUTY OF DISCLOSURE

Pursuant to applicant's duty of disclosure 37 CFR Section 1.56, enclosed is a completed form PTOL-1449. All referenced patents can be found in the parent case. Since this document submittal is being presented prior to the first examination on the merits, no fee is due herewith.

The attached Russian patent application and English translation thereof names the applicant herein as an inventor and was published on November 30, 1994, less than one year prior to the filing date of the parent application hereto.

The article entitled "Progress in the Development of SAW Resonator Pressure Transducers" by Cullen et al. describes a unique all-quartz packaging technique for the dual oscillator SAW pressure sensor.

The article entitled "Pressure and Acceleration Sensitivity of SAW Interferometer" by Staples et al. discusses the reflection of surface acoustic waves (SAW) by quarter wavelength spaced gratings which leads directly to interference dominated frequency spectra in devices such as SAW resonators.

The article entitled "Displacement Measurement by SAW Delay-Line Oscillator Consisting of Two LiNbO₃ Plates with IDT" by Ishido et al, 1987 IEEE, pages 83-86, discusses enhancing the sensitivity of SAW displacement sensors by manipulating one of two LiNbO₃ plates of a SAW delay-line oscillator.

The article entitled "A 200 MHz surface acoustic wave resonator mass microbalance" by Bowers et al., June 1991, Review of Scientific Instruments, pages 1624-1629, discusses the development of a 200 MHz SAW instrument based on a SAW resonator instead of a conventional delay line.

The attached Russian patent 93039101 and English translation thereof discloses a scale utilizing a SAW delay-line with two piezoelectric substrate SAW converters.

The listed documents are brought to the Examiner's attention because they are known to the applicant and/or the applicant's attorney and may be considered by the Examiner to be material to his/her examination. This listing should not be construed as representation that a search has been made or that no better art exists. No inference should be made that the documents are in fact material merely because they are referenced herein. Moreover, no representation is made that the brief descriptions of the references herein necessarily describe the most material aspects of the references. Further, by this listing, the applicant is not making any admission regarding the relative dates of the invention and listed disclosures.

Respectfully submitted,



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INFORMATION DISCLOSURE CITATION PAGE 1 OF 2				Atty Docket No. CAS-004 CIP-PCT		Serial No. 10/030,646	
				Applicant Vyacheslav D. Kats & Arnold S. Gordon			
				Filed May 20, 2002		Group 2859	
US PATENT DOCUMENTS							
Examiner Initials		Document No.	Date	Name	Class	Sub-class	Filing date if approp.
	A	3,444,943	5/20/69	Tytus	177	180	
	B	4,096,740	6/1978	Sallee	73	88.5	
	C	4,107,626	8/1978	Kiewit	177	210FP	
	D	4,294,321	10/1981	Wittlinger et al.	177	210	
	E	4,526,246	7/2/85	Patoray	177	179	
	F	4,623,813	11/1986	Naito et al.	177	210FP	
	G	4,858,145	8/1989	Inoue et al.	177	210FP	
	H	4,878,552	11/7/89	Gebo et al.	177	212	
	I	4,884,645	12/5/89	Knothe et al.	177	180	
	J	4,957,177	9/18/90	Hamilton et al.	177	211	
	K	5,473,110	12/5/95	Johnson	174	35	
	L	5,476,002	12/95	Bowers et al.	73	24.01	
	M	5,481,071	1/2/96	Wojnarski	177	124	
	N	5,521,334	5/28/96	Freeman	177	154	
	O	5,527,989	6/18/96	Leeb	174	35	
	P	5,524,908	6/11/96	Reis	277	233	
	Q	5,663,531	9/1997	Kats	177	210FP	
	R	5,723,826	3/3/98	Kitagawa et al.	177	211	
	S	5,910,647	6/8/99	Kats et al.	177	210FP	
FOREIGN PATENT DOCUMENTS							
Examiner Initials		Document No.	Date	Country	Class	Sub-class	Translation Yes No
		9303 910 1/10 /038680	11/30/94	Russia			

INFORMATION DISCLOSURE CITATION PAGE 2 OF 2		Atty Docket No. CAS-004 CIP-PCT	Serial No. 10/030,646
		Applicant Vyacheslav D. Kats & Arnold S. Gordon	
		Filed May 20, 2002	Group 2859
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	I	"Progress in the development of SAW resonator pressure transducers" by Cullen et al., 1980 Ultrasonics Symposium, pp. 696-701	
	II	"Pressure and acceleration sensitivity of SAW Interferometer" by Staples et al., 1981 Ultrasonics Symposium, pp. 155-158	
	III	"Displacement Measurement by SAW Delay-Line Oscillator Consisting of Two LiNbO ₃ Plates with IDT" by Ishido et al., 1987 IEEE, pp. 83-86	
	IV	"A 200 MHz surface acoustic wave resonator mass microbalance" by Bowers et al., June 1991, Review of Scientific Instruments, pp. 1624-1629	
EXAMINER		DATE CONSIDERED	